

## Seward County

### Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 19 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Seward County economy.<sup>1</sup>

These 19 sectors have a total direct output of approximately **\$2.09 billion** and support **3,348 jobs** in Seward County. Running the model for all 19 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Seward County Economy					
Contribution Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>
<b>Direct Effect</b>	3347.8	23.31%	\$374,796,599	33.89%	\$2,092,620,786
<b>Indirect Effect</b>	1029.9	7.17%	\$83,124,330	7.52%	\$163,120,801
<b>Induced Effect</b>	922.6	6.42%	\$61,023,392	5.52%	\$112,166,901
<b>Total Effect</b>	5300.2	36.90%	\$518,944,321	46.92%	\$2,367,908,487

As shown in the above table, agriculture, food, and food processing sectors support **5,300 jobs**, or **36.90%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 19 agriculture, food, and food processing sectors is approximately **\$518.9 million**, or **46.92% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the animal, except poultry, slaughtering sector is the top employer with **2,659 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Seward County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	2,658.5	\$1,835,966,116
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	391.3	\$145,814,609
Truck transportation	329.0	\$52,995,791
Wholesale trade	142.7	\$31,073,155
Real estate	110.1	\$15,081,297
Limited-service restaurants	105.0	\$8,395,223
Full-service restaurants	91.5	\$4,225,452
Grain farming	74.2	\$75,222,664
Support activities for agriculture and forestry	66.1	\$8,313,638
Landscape and horticultural services	65.6	\$3,055,756

The animal, except poultry, slaughtering directly contributes approximately **\$1.84 billion** to the Seward County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	2,658.5	\$1,835,966,116
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	391.3	\$145,814,609
Grain farming	74.2	\$75,222,664
Truck transportation	329.0	\$52,995,791
Wholesale trade	142.7	\$31,073,155
Owner-occupied dwellings	0.0	\$19,646,738
Real estate	110.1	\$15,081,297
Monetary authorities and depository credit intermediation	51.5	\$11,076,362
Electric power transmission and distribution	7.9	\$10,049,922
Limited-service restaurants	105.0	\$8,395,223

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Seward County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	2.7	\$7,333,741.66
Grain farming	74.2	\$75,222,663.88
Greenhouse, nursery, and floriculture production	2.5	\$337,561.13
Cotton farming	17.9	\$4,336,510.18
All other crop farming	3.4	\$696,262.42
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	391.3	\$145,814,605.71
Dairy cattle and milk production	7.3	\$3,062,465.43
Poultry and egg production	0.5	\$485,869.74
Animal production, except cattle and poultry and eggs	1.7	\$441,789.15
Commercial hunting and trapping	0.8	\$14,998.67
Support activities for agriculture and forestry	66.1	\$8,313,637.73
Animal, except poultry, slaughtering	2658.5	\$1,835,966,186.52
Bread and bakery product, except frozen, manufacturing	18.0	\$2,225,433.11
Frozen cakes and other pastries manufacturing	1.1	\$183,678.76
Tortilla manufacturing	21.0	\$3,838,045.36
Wineries	1.7	\$334,448.10
Other leather and allied product manufacturing	2.5	\$74,761.55
Veterinary services	11.0	\$882,437.29
Landscape and horticultural services	65.6	\$3,055,756.33

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Seward County, the retail sector was omitted.